

(b) a first promoter comprising DNA encoding a mycobacterial heat shock protein promoter and translational start site;

(c) a mycobacterial secretion signal sequence;

(d) a second DNA molecule encoding a tumor antigen; and

(e) a second promoter comprising DNA encoding mycobacterial heat shock protein promoter and translational start site;

wherein the 5' to 3' order is said first promoter of (b), said secretion signal sequence of (c), said first DNA molecule of (a), said second promoter of (e) and said second DNA molecule of (d), wherein the expression of said first DNA molecule of (a) is under the control of said first promoter of (b) and the cytokine is expressed and secreted from said mycobacterium in a biologically active form and the expression of said second DNA molecule of (d) is under the control of said second promoter of (e).

Please add claim 37 as follows:

37. (New) The E. coli-BCG shuttle plasmid of claim 20, wherein when said shuttle plasmid is expressed in a mycobacterium in a host, the tumor antigen is expressed by said mycobacterium and elicits an enhanced immunostimulatory response that is specific for said tumor antigen.